modernfold DOORS®

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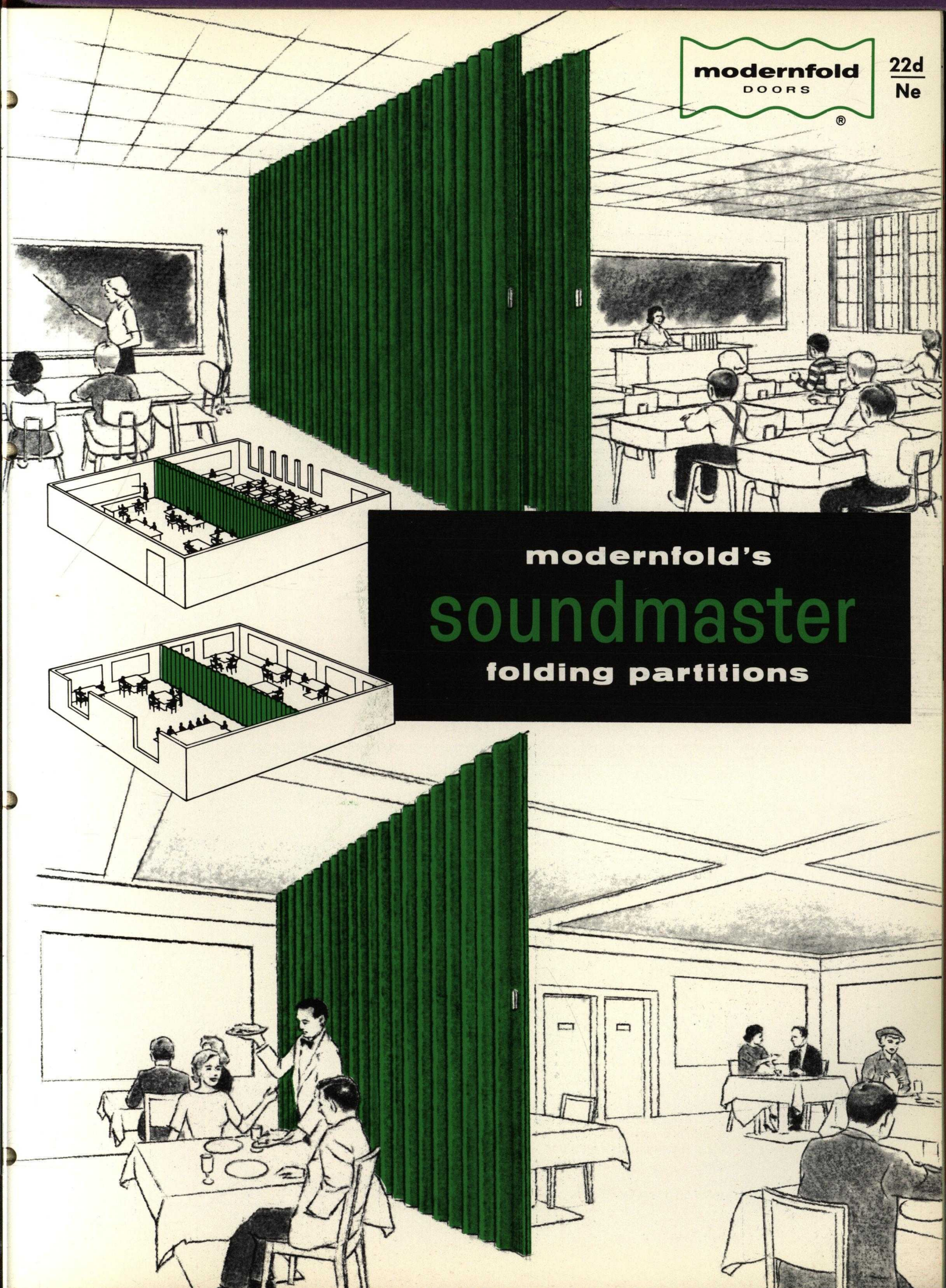


modernfold's

soundmaster

folding partitions

modernfold introduces a new age in sound retardant folding partitions

MODERNFOLD's new "Soundmaster" line of folding partitions has created new standards of performance for folding partitions. Available in two different models—the "80" and "120"—MODERNFOLD now makes it possible to combine space flexibility and sound control.

In addition to the conventional single partition application, the use of two "Soundmaster" partitions, side by side, makes it possible to achieve even greater sound insulating results—thus making the folding partition a truly practical solution to the more critical sound control problems.

Sound Testing Standards—All the data in the following tables were obtained by Richard Hamme of Geiger & Hamme Laboratories, Ann Arbor, Michigan. Mr. Hamme is a consultant in acoustics, and served on ASTM Committee E-6 on Methods of Testing Building Constructions (Committee that established test procedure E90-55).

The results of these tests (Ave. 1) show the average transmission loss values of the "Soundmaster 80" and the "Soundmaster 120"—both singly and in pairs—at all frequency levels.

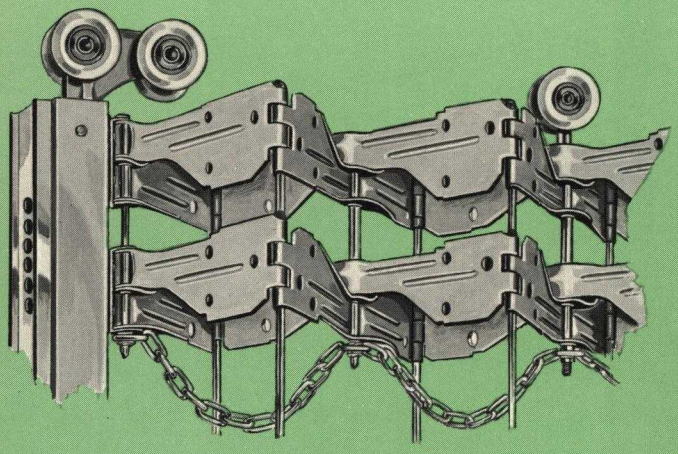
For comparison purposes only, the tests (Ave. 2) show the average transmission loss values for the more limited frequency range per folding door industry standards.

SOUND TRANSMISSION LOSS TESTS • GEIGER & HAMME LABORATORIES

TRANSMISSION LOSS (db.) AT FREQUENCY (C.P.S.)

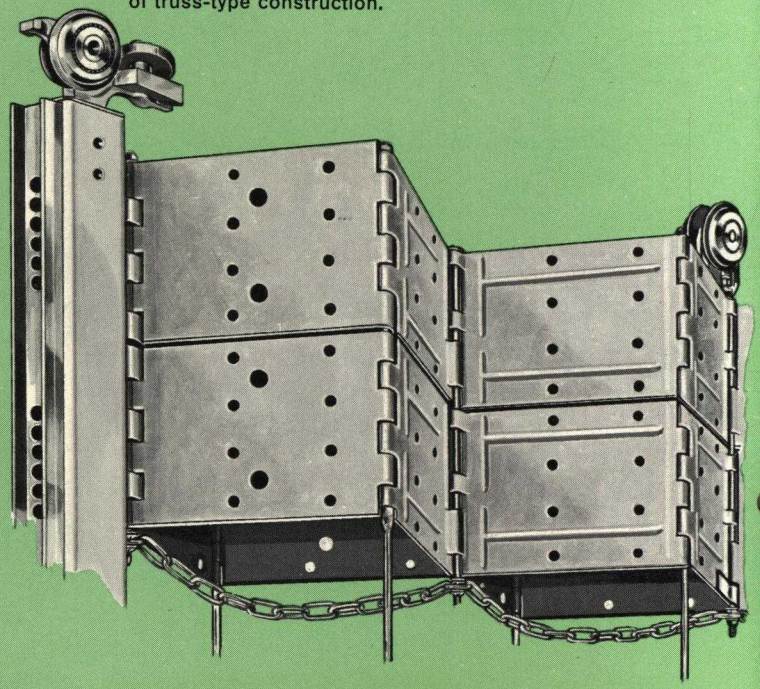
DOOR DESCRIPTION	125	177	250	354	500	707	1000	2000	4000	Ave. 1	Ave. 2
G & H Test #NC-18T "Soundmaster No. 80"	16	25	22	27	28	32	33	40	47	29.9	34.5
G & H Test #NC-16T "Soundmaster No. 120"	14	23	25	33	33	36	31	43	49	31.9	37.5
G & H Test #NC-17T Two (2) "Soundmaster No. 80"—12" O.C.	24	33	32	39	40	46	46	53	53	40.5	46.2
G & H Test #NC-19T Two (2) "Soundmaster No. 120"—15" O.C.	24	29	33	49	42	49	46	54	54	42.2	49.0

AVE. 1. Average of nine (9) test frequencies (125-4000 cps) per A.S.T.M. E90-55.
AVE. 2. Average of six (6) test frequencies (354-4000 cps) per Folding Door Industry Standards.



"Soundmaster 120" partitions over 15'0" high are equipped with two rows of four inch high plates—*welded* in place—to provide unequalled rigidity and strength for a full eight inches at the top.

"Soundmaster 80" partitions over 8'0" high are equipped with two rows of hinges at top —spaced one inch apart, and *welded* in place —to provide the extra strength and rigidity of truss-type construction.



modernfold's soundmaster partitions

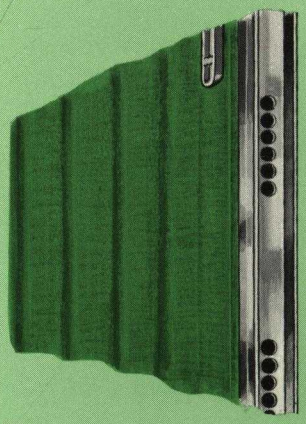
construction features

"Soundmaster" partitions are engineered specifically to reduce sound in two important ways: first, they provide mass through a specially developed and carefully manufactured chip board panel understructure. These chip board panels are .175 inch thick, joined by tough hinge material, and then vinyl coated for fire resistance—they are used on *both* sides of every "Soundmaster" partition.

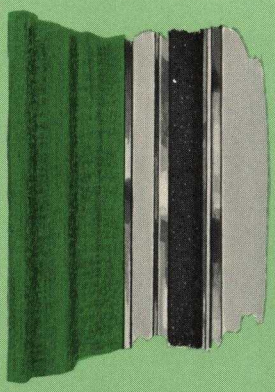
Second, every "Soundmaster" partition is designed to seal every possible opening through which sound might pass. Sweep strips—which are rubberized fabric strips—are installed on the top and bottom edges of the partition, on both sides, to completely seal the clearance space required for proper operation. And "Soundmaster's" exclusive air release lead post seals completely within the wrap-around jamb moulding, where a deep layer of plastic foam assures positive contact along every inch of its length.

The result of this engineering is "Soundmaster"—a handsome product that appears to be identical to any other MODERNFOLD partition, yet provides the maximum amount of sound reduction available in a folding partition, and meets the most rigid New York City and Boston fire codes.*

*1. New York City Board of Standards and Appeals Cal No. 294-40-SR—Rules for Flameproof material.
2. Boston Fire Department—Terms and conditions promulgated by the head of the Fire Department governing the use of Decorative Materials in Public Buildings, Places of Assembly and in Stores. Fire Prevention Division Document No. 5.

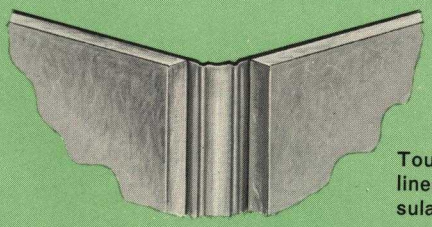


Air release outlets prevent entrapment of air when partitions are stacked.

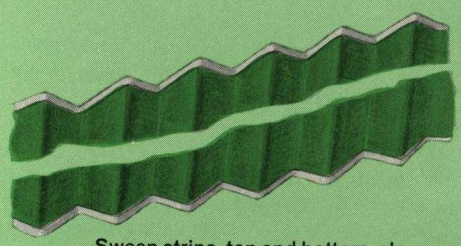


Extruded aluminum channels seal off all crevices at the lead post with lining of plastic foam.

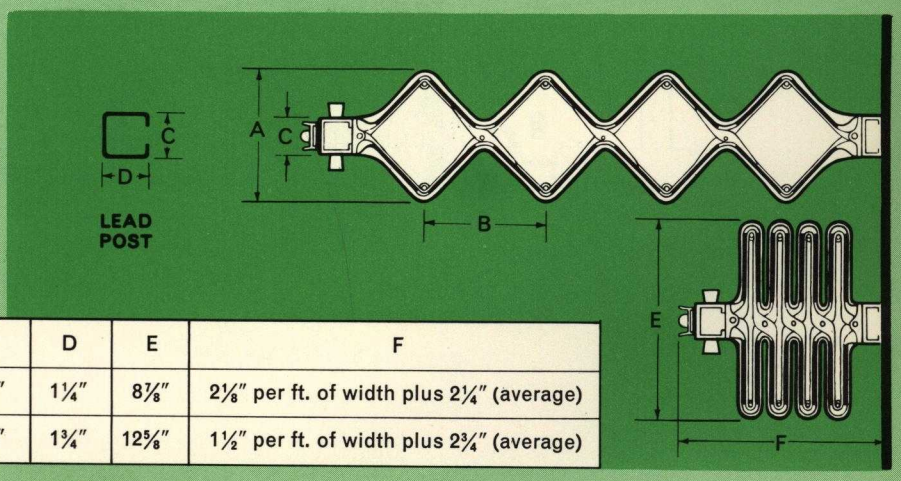
Exclusive, heavy duty closing latch operates through pendant pulls—assures snug seal between partition and wall moulding. Operation of closing latch is independent of lock supplied for security purposes.



Tough, vinyl coated, chip board liner, on both sides of partition, insulates against sound.



Sweep strips, top and bottom, close all crevices around the partition.



Dimensions

	A	B	C	D	E	F
"Soundmaster 80"	6¼"	6½"	1¼"	1¼"	8⅞"	2⅛" per ft. of width plus 2¼" (average)
"Soundmaster 120"	7⅝"	9½"	1½"	1¾"	12⅝"	1½" per ft. of width plus 2¾" (average)

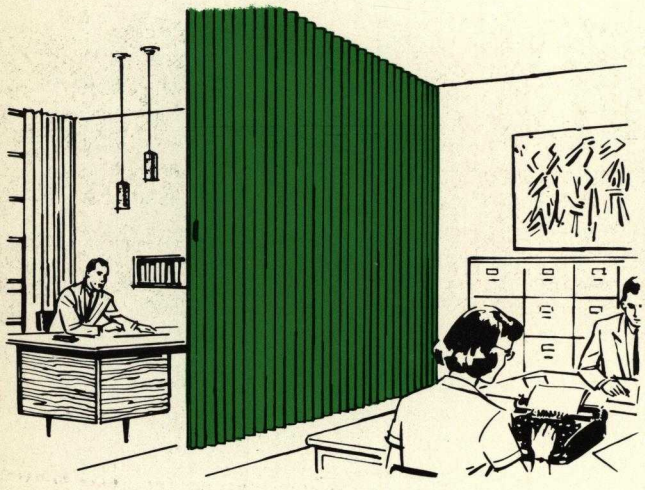
Acoustic Criteria for Specific Applications

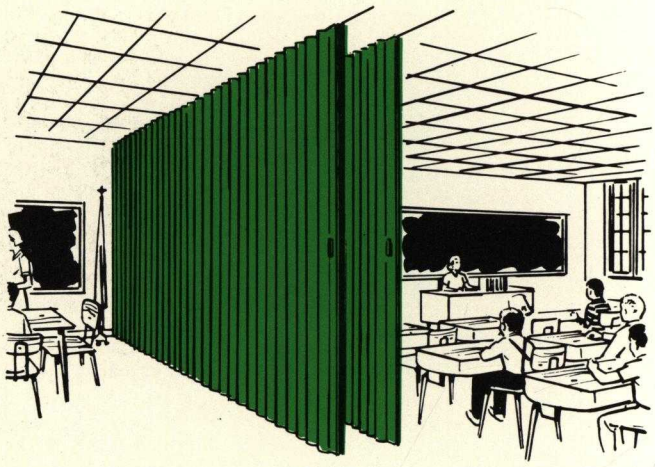
The highly complex nature of sound problems rules out the possibility of setting down any positive, inflexible regulations regarding its control. Such factors as background noise, unpleasant sounds, type of activity, etc. all play an important role in the overall picture.

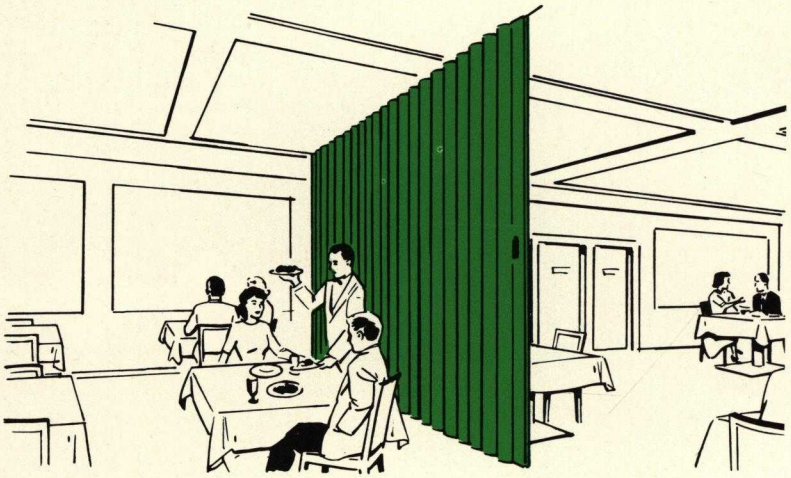
Nevertheless, a set of required transmission loss level curves has been established by Bolt, Beranek and Newman. This acoustic criteria has been tabulated for some of the more common situations, and along with each, the corresponding "Soundmaster" installation.

The following illustrations show three typical sound control situations, and the recommended "Soundmaster" solution.

For a detailed analysis of these—or any other specific installations—contact your MODERNFOLD distributor.







Private and general offices are separated with good acoustical results by a single "Soundmaster 80" partition.

Typical classroom applications require the use of two "Soundmaster 80" partitions installed parallel on 12" centers to achieve good acoustical performance.

A single "Soundmaster 120" provides good acoustical results in typical dining rooms, where private parties are often held while the public is being served in adjoining areas.

New Castle Products, Inc., New Castle, Indiana • Manufacturers of "Modernfold" Folding Doors, "Air Doors," "Modern-cote" Wall Coverings and "Peabody" School Furniture. In Canada: New Castle Products Canada, Ltd., St. Lambert, Que.

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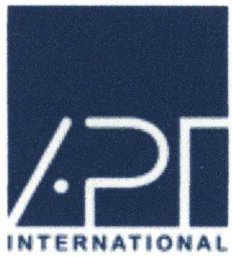

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